



Marine Exchange of Alaska PACTRACS Vessel Tracking System User's Manual



**Vessel Tracking System that employs AIS
(Automatic Identification System) and Satellite communications
to aid safe, secure, efficient and environmentally
sound maritime operations.**

www.mxak.org

The screenshot shows the homepage of the Marine Exchange of Alaska. At the top is a navigation bar with tabs: Home, Ports, Navigation, Weather, Careers, Regulations, Vessel Tracking, USCG Info, and Emergency. A Google Custom Search bar is on the right. A left sidebar contains a menu with links: MXAK Overview/Programs, Membership, Our Crew, Newsletters, News Archives, TWIC, Chart Sales, MARSEC Levels, Links, Alaska Maritime Community Photos, Photo Essays, and Contact Us. The main content area features a large photo of a lighthouse on a rocky shore. To the right of the photo is a text block about AIS upgrades at Cape Decision. Below the photo is a 'Latest News' section with three items: 'Juneau Navigation Study Simulator Results ... Jun 30', 'Vessel Security Officer Training Certifications ... Jun 22', and 'New Commander for Sector Juneau ... Jun 11'. On the far right is a 'Alaska Maritime Community' section with a link to email photos and two small photos of maritime scenes.

Marine Exchange of Alaska

Google Custom Search Search

Home Ports Navigation Weather Careers Regulations Vessel Tracking USCG Info Emergency

MXAK Overview/Programs
Membership
Our Crew
Newsletters
News Archives
TWIC
Chart Sales
MARSEC Levels
Links
Alaska Maritime Community Photos
Photo Essays
Contact Us

MXAK staff Brett Farrell and Steve Lanwermyer departing Cape Decision lighthouse via skiff after upgrading the MXAK AIS site there with improved antenna, batteries and wind turbine. This AIS site can now track vessels 150 miles into the Gulf of Alaska and as far south as Canadian waters inside the Queen Charlotte Islands. The Marine Exchange's AIS network is now comprised of over 70 receiving stations from Barrow to Ketchikan and growing. New AIS sites in the Kodiak Archipelago and the Arctic are also being installed and coming on line by 1 July.

Alaska Maritime Community
>>email us your photo with caption

Latest News
Juneau Navigation Study Simulator Results ... Jun 30
Vessel Security Officer Training Certifications ... Jun 22
New Commander for Sector Juneau ... Jun 11

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Introduction

PACTRACS



Welcome to the Marine Exchange of Alaska's Vessel Tracking System - PACTRACS. This system is designed to track vessels in the Pacific to aid safe, secure, efficient and environmentally responsible maritime operations. Using PacTracs, you can find information on a vessel's present and past locations, speed, route, destination and more.

PACTRACS is capable of receiving, processing and displaying the positions of vessels received by both AIS (Automated Identification System) and satellite tracking systems. The Marine Exchange established and operates over 60 AIS receiving stations in Alaska from Prudhoe Bay west to Adak and south to Ketchikan that provide the positions of AIS equipped vessels operating near these sites. The Marine Exchange also has access to AIS information from an additional 100+ AIS sites in the lower 48 operated by affiliated Marine Exchanges.

The reach of AIS coverage, depending on location, elevation, terrain masking, ranges from 20-150 miles from AIS sites. Vessel position reports are received several times a minute, Near worldwide tracking coverage is provided by satellites tracking systems which transmit positions at less frequent intervals, normally every 1-4 hours.

Log-In Page and Directions

PACTRACS is a secure vessel tracking program accessible by authorized users who may view vessel tracking information via a web accessed graphical user interface through use of an assigned username and password.

The log in page may be accessed through the Marine Exchange web site at www.mxak.org and selecting the vessel tracking tab at the top of the web page or the quick link at the bottom of the page.

PACTRACS may also be accessed through the www.pactracs.com web site.



One User Name – One Person

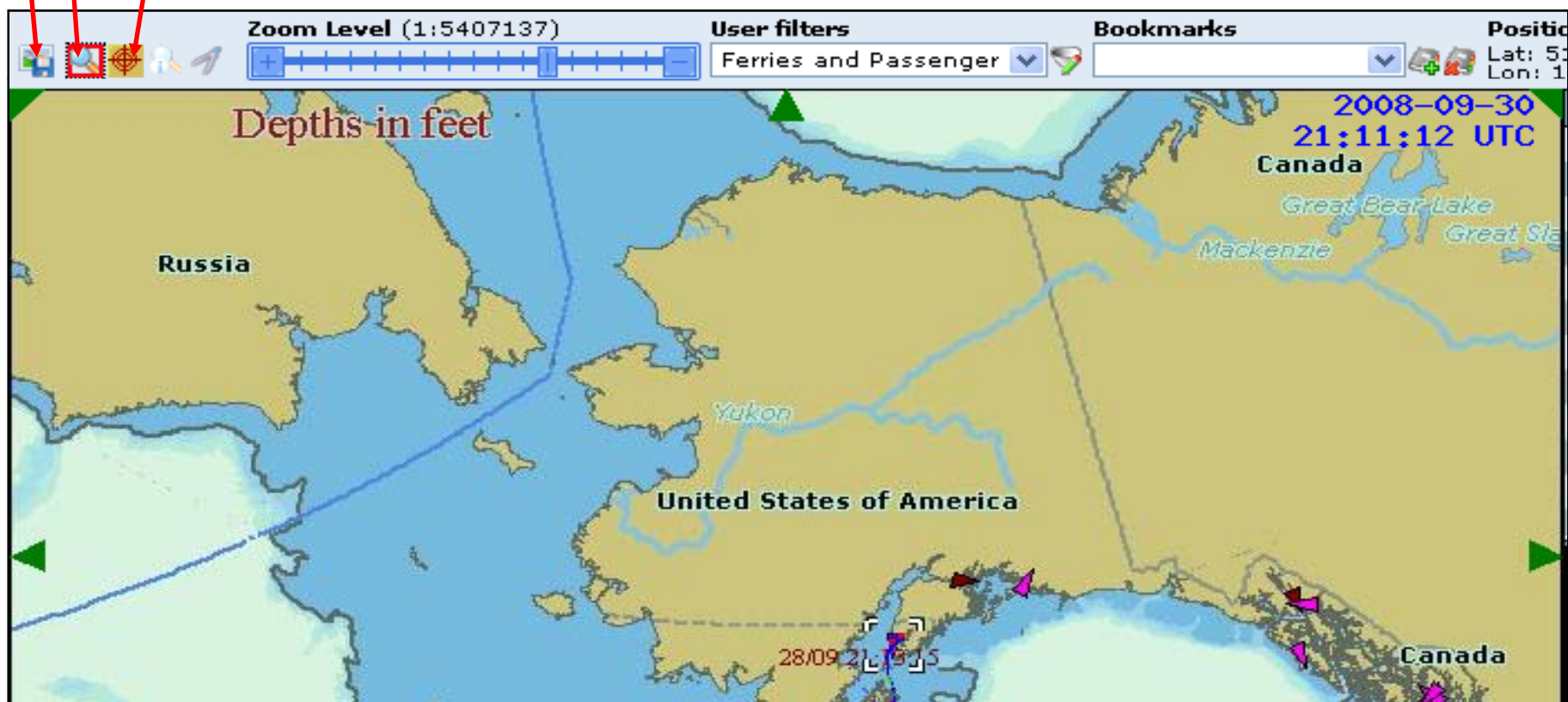
- Only one person may be logged into PACTRACS using the same user name and password at the same time. If one logs into the system they take precedence and the other person previously on the system is forced off.

Navigation Area: Save Image, Zoom, Center

Save Image Select this icon to save the image currently shown on the screen. Upon clicking the icon a dialog will appear giving the options of showing the image or saving it to disc.

Zoom Box In this mode, the user can quickly navigate and zoom in on the chart by drawing a rectangle encompassing an area. After drawing the rectangle the map will zoom into the area defined by the drawn rectangle.

Center Selection Upon selecting this icon and then clicking on the map, the map centers around the selected point with the current zoom level maintained. If selecting a target, information on the vessel is also displayed.

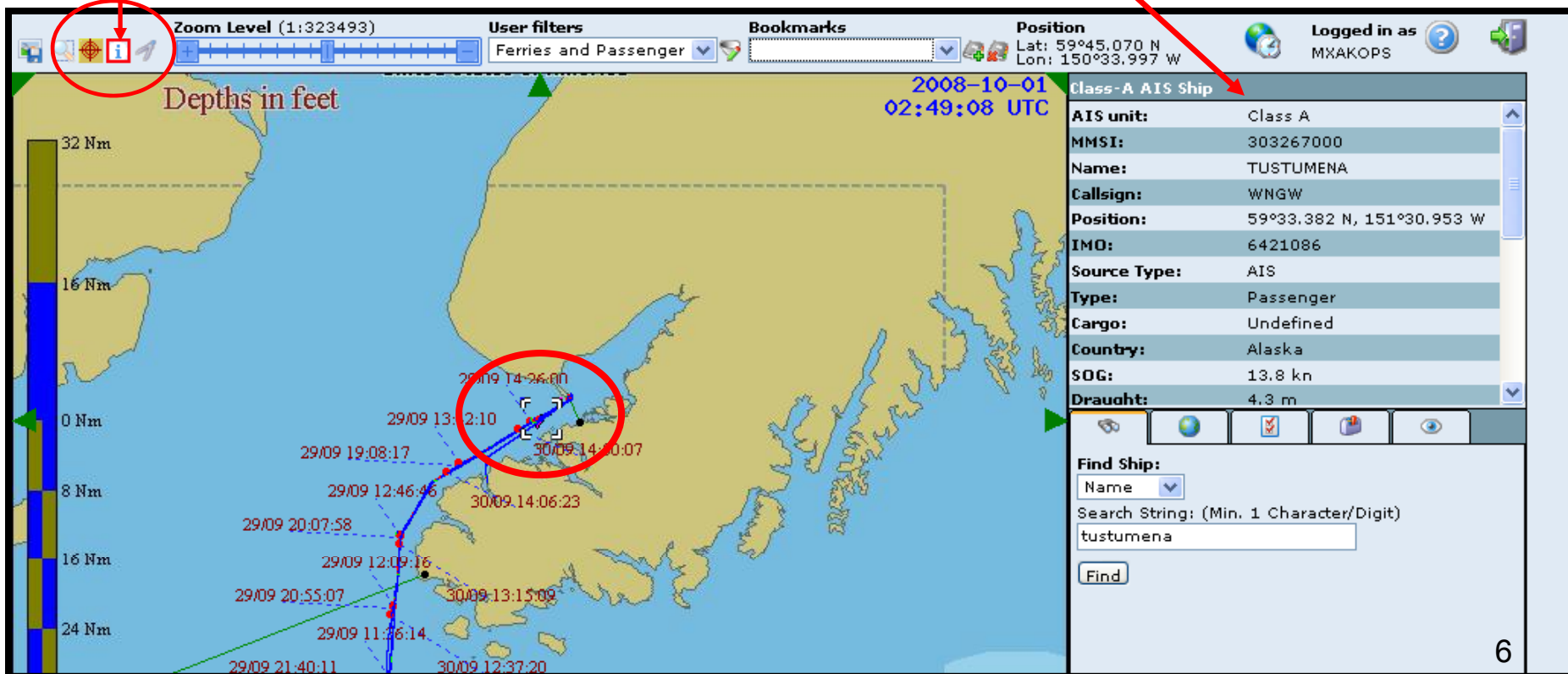


Navigation Area: Target Information Tool

Target Information: Clicking the info symbol highlights the **i**

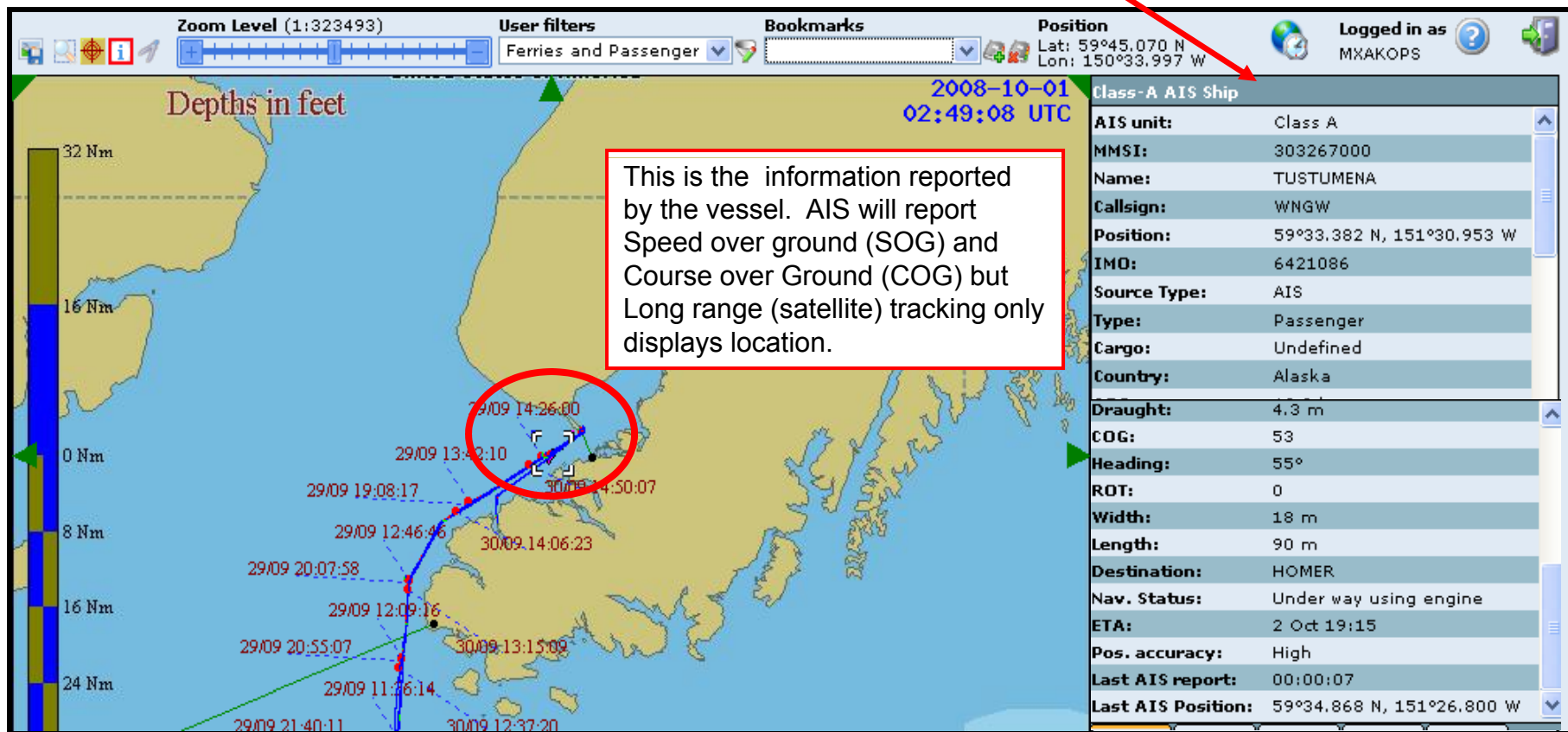
In this mode the user obtains additional information on the selected vessel.

Information on the selected vessel is displayed in the Window at right.



Navigation Area: Target Information Window

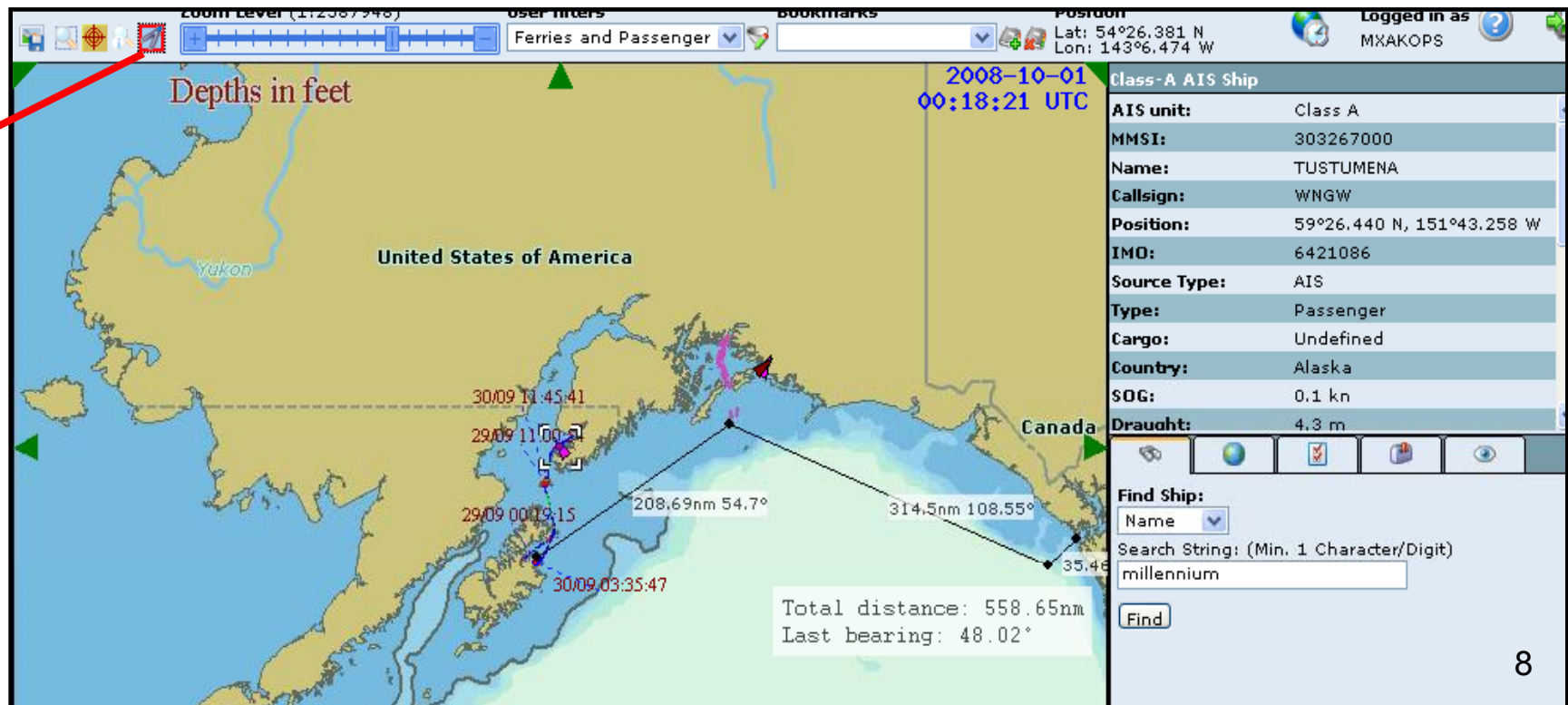
Information Window When the user clicks a target (e.g. an AIS equipped vessel, an AIS base station, virtual area, etc.) on the chart, information about the selected target is displayed in the information window. As illustrated below, this window will display the available AIS properties for the selected target.



Navigation Area: Measure Distances

Measuring Distances

- Upon selecting the measurement (dividers) icon,  the starting point of the measurement is set upon clicking on the chart at the desired starting point. While moving the cursor a measurement tool appears.
- When left clicking a new point is set, and the fixed line will be updated with distance and bearing between the two points displayed.
- Upon double clicking the tool is fixed as is the text box. Double clicking once more on the map will make the measure tool and text box disappear.
- A measurement can be cancelled by pressing the Escape key.

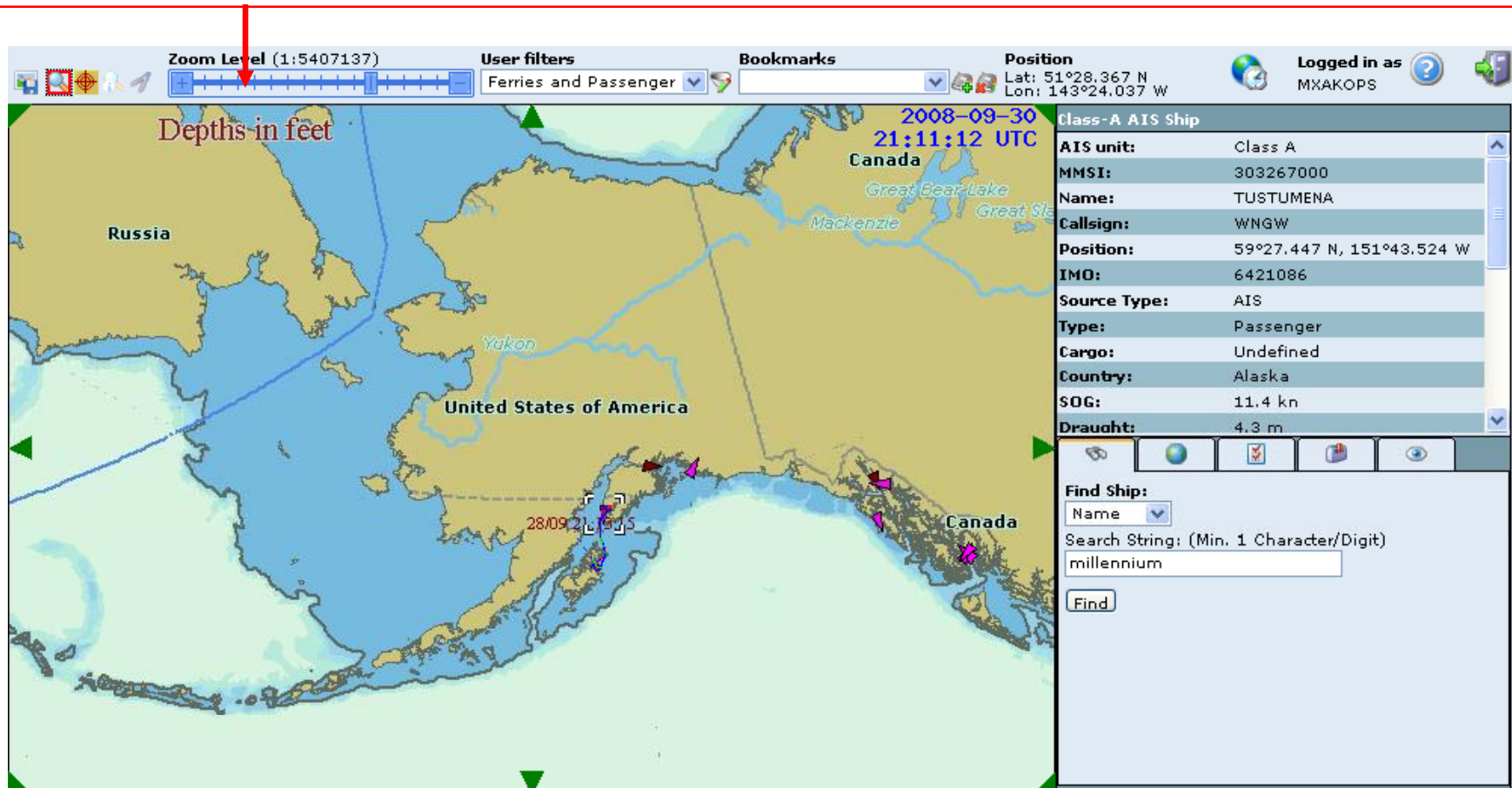


Navigation Area: Zoom Bar

Zoom bar. The zoom bar shows the detail level the chart is currently displaying. When the bar is placed to the left most extreme, the chart is zoomed in to show maximum detail levels where the physical size of the AIS tracked vessels is displayed. At the right most extreme, the least details are shown (at this zoom level countries can be seen). The current scale is displayed above the zoom bar.

 **Zoom in.** When the user clicks this button, the map zooms in one detail level (more detail can be seen).

 **Zoom out.** When the user clicks this button, the map zooms out one detail level (less detail can be seen).



Navigation Area: Filters

1. The filter drop down menu allows the user to apply existing user defined filters:

A filter modifies the vessels displayed, i.e. in the example below only Ferries and Passenger vessels are displayed.

To disable the filter, the option "no filter" should be selected from the drop down menu and all vessels will be shown.

2. To define/edit filters, select the filter administration button. This will open the [Filter Administration](#) window. (See next page for more info on this feature)

The screenshot displays a navigation interface with a map of the Arctic region. The map shows Russia, Canada, and Alaska. A zoom level of 1:5407137 is indicated. A filter dropdown menu is open, showing "Ferries and Passenger" as the selected filter. A red arrow points to the "Add Filter" button in the "Administer Filters" window. A red arrow points to the "Filter Administration" button in the top right corner of the interface.

User filters

Ferries and Passenger

Position

Lat: 51°28.367 N
Lon: 143°24.037 W

Class-A AIS Ship

AIS unit:	Class A
MMSI:	303267000
Name:	TUSTUMENA
Callsign:	WNGW
Position:	59°27.447 N, 151°43.524 W
IMO:	6421086
Source Type:	AIS
Type:	Passenger
Cargo:	Undefined
Country:	Alaska
SOG:	11.4 kn
Draught:	4.3 m

Find Ship:

Name

Search String: (Min. 1 Character/Digit)

millennium

Find

Administer Filters - Mozilla Firefox

http://www.pactracs.com/webgad/filters.php

Administer Filters

Filters:

Add Filter

Navigation Area: Vessel Filters (cont'd)

The filter administration tool allows the user to create filters that can be applied on the AIS data.

The user can set the entity that is filtered (e.g. name, ship type, cargo, etc) by clicking the dropdown menu.

The user can further define the filter by length, destination, and other data captured by AIS.

The user activates the filter by clicking the filter dropdown in the main window and selecting the desired filter.

The screenshot displays the 'Administer Filters' web application in Mozilla Firefox. The interface includes a top navigation bar with 'Zoom Level (1:5407137)', 'User filters' (set to 'Ferries and Passenger'), 'Bookmarks', 'Position' (Lat: 51°28.367 N, Lon: 143°24.037 W), and 'Logged in as MXAKOPS'. The main content area is divided into two panes. The left pane, titled 'Administer Filters', shows a 'Filters:' section with an 'Add filter' button and a 'Save Filter' button. The right pane, titled 'Edit/Create Filter', contains a 'Name:' field, a 'Filter:' dropdown menu, and a list of filterable attributes including SOG, COG, NAME, MMSI, COUNTRY-AIS, WIDTH-AIS, LENGTH-AIS, DRAUGHT-AIS, SHIPTYPE-AIS, CARGO TYPE, DESTINATION, HEADING, NAV_STATUS, CALLSIGN, IMO, ETA_MON, ETA_DAY, ETA_HOUR, ETA_MIN, and INVALID_HEADING. Annotations with red boxes and arrows provide instructions: 'Click icon to the left and window to the right appears' points to the 'Add filter' button; 'Enter the name for the filter then click "Add Filter"' points to the 'Name:' field; 'the screen to the right appears.' points to the 'Edit/Create Filter' pane; and 'Select desired filters and/or filter combinations. Then select "Save Filter"' points to the 'Save Filter' button.

Zoom Level (1:5407137) User filters Ferries and Passenger Bookmarks Position Lat: 51°28.367 N Lon: 143°24.037 W Logged in as MXAKOPS

2008-09-30 21:11:12 UTC Canada

Class-A AIS Ship

AIS unit:	Class A
MMSI:	303267000
Name:	TUSTUMENA

Administer Filters - Mozilla Firefox

http://www.pactracs.com/webgadm

Administer Filters

Filters:

Click icon to the left and window to the right appears

Edit/Create Filter - Mozilla Firefox

http://www.pactracs.com/webgadm/filters.php?action=edit

Edit/Create Filter

Name:

Filter:

Save Filter

Enter the name for the filter then click "Add Filter"

the screen to the right appears.

Select desired filters and/or filter combinations. Then select "Save Filter"

Done

http://www.pactracs.com/webgadm/filters.php?action=edit#

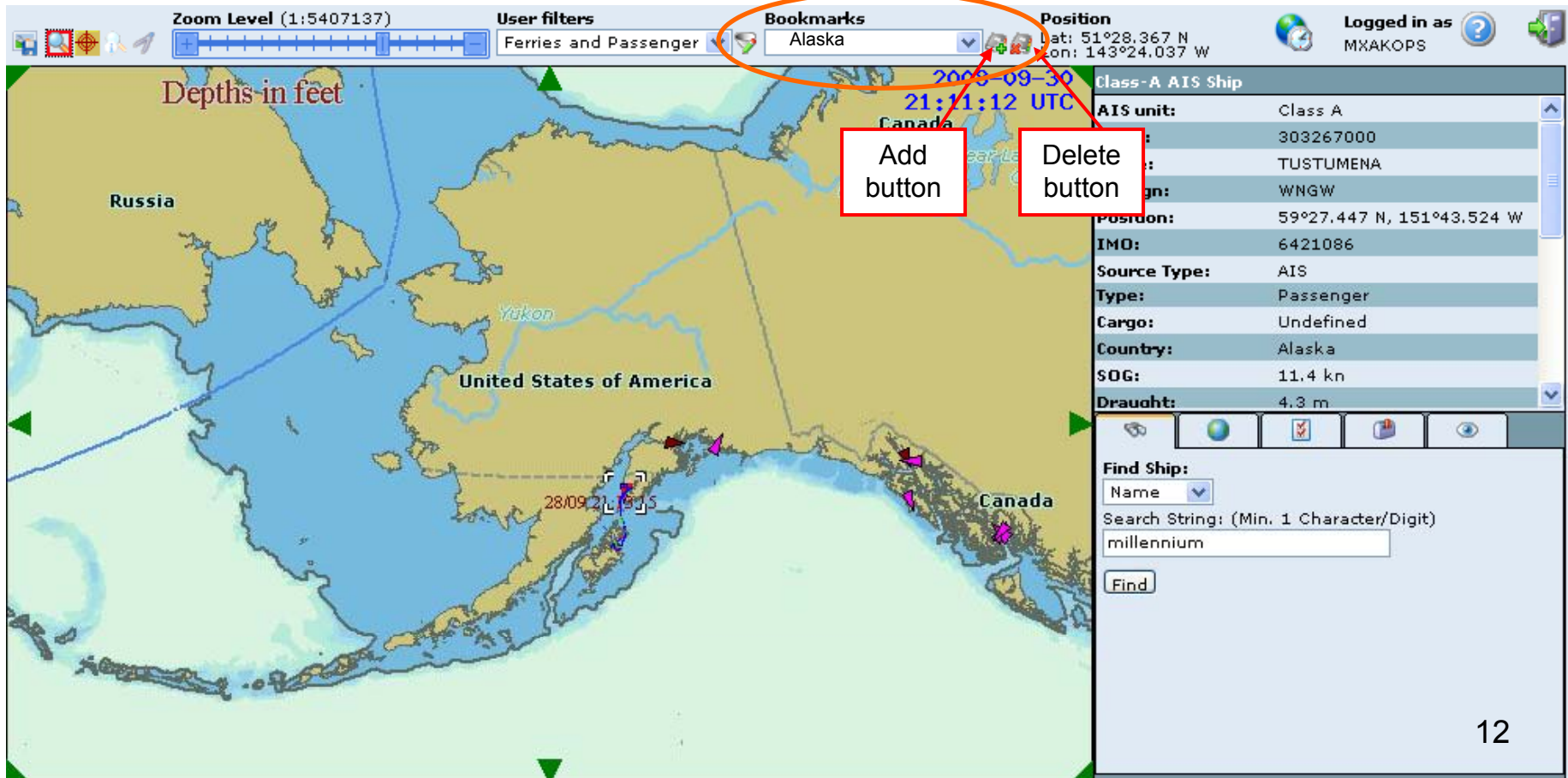
Navigation Area: Bookmarks

Bookmarks allows the user to save and readily return to designated areas:

The user can create a bookmark by navigating to a chart display area using the various navigational functions. Next the user clicks the “add” bookmark button, and a bookmark prompt is displayed:

After entering a name, and clicking the OK button  - a bookmark is created for the user. The user can now select this bookmark button in the dropdown button. When the location is selected the chart will change its center and zoom level, to the one registered in the bookmark.

The user can also delete bookmarks using the “delete” shown below. 



The screenshot displays a maritime navigation application. The top toolbar includes a 'Zoom Level' slider set to 1:5407137, 'User filters' set to 'Ferries and Passenger', and a 'Bookmarks' dropdown menu currently showing 'Alaska'. The 'Bookmarks' menu is open, revealing two buttons: 'Add button' and 'Delete button', both highlighted with red boxes and arrows. The main map area shows the Gulf of Alaska, with labels for 'Russia', 'United States of America', 'Canada', and 'Yukon'. A date and time stamp '2006-09-30 21:11:12 UTC' is visible. On the right, a 'Class-A AIS Ship' panel lists details for a ship named 'TUSTUMENA' (IMO: 6421086, Type: Passenger). Below this is a 'Find Ship' section with a search string 'millennium' and a 'Find' button. The bottom right corner of the slide shows the number '12'.

Navigation Area: Position

Position At any time when moving the cursor over the map, and holding it there for a short period of time, the position of the cursor on the chart is shown in the upper tool bar area.

The screenshot displays a maritime navigation application. The main map area shows the Gulf of Alaska, with the United States and Canada visible. A red arrow points from the text box to the map, and another red arrow points from the text box to the 'Position' field in the top toolbar. A white arrow points to a specific location on the map. The top toolbar includes a zoom level of 1:3603877, user filters (No filter), bookmarks, and a position field showing Lat: 57°2.406 N and Lon: 139°57.849 W. The right panel displays details for a Class-A AIS Ship, TUSTUMENA, with various fields like MMSI, Callsign, Position, IMO, Source Type, Type, Cargo, Country, SOG, and Draught. Below this is a 'Find Ship' section with a search string input and a 'Find' button.

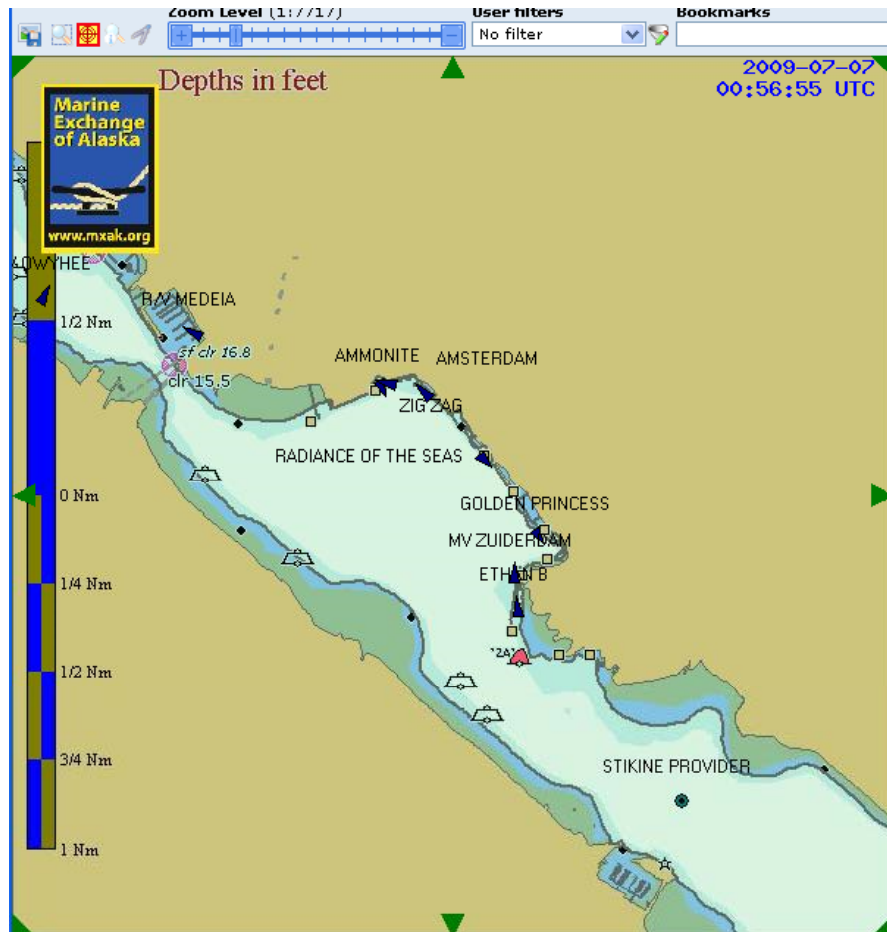
Position
Lat: 57°2.406 N
Lon: 139°57.849 W

Class-A AIS Ship

AIS unit:	Class A
MMSI:	303267000
Name:	TUSTUMENA
Callsign:	WNGW
Position:	57°47.204 N, 152°24.157 W
IMO:	6421086
Source Type:	AIS
Type:	Passenger
Cargo:	Undefined
Country:	Alaska
SOG:	0.1 kn
Draught:	4.3 m

Find Ship:
Name
Search String: (Min. 1 Character/Digit)

Vessel Names: Displaying Multiple Vessel Names



To display all vessels' names on the system one must follow the four steps shown at right.

Vessels' names will only be displayed when the image is zoomed in.

Class-A AIS Ship

AIS unit:	Class A
MMSI:	338371000
Name:	POLAR ENDEAVOUR
Callsign:	WCAJ
Position:	53°11.040 N, 138°11.360 W
IMO:	9193551
Source Type:	LRIT
Type:	Tanker
Cargo:	Undefined
Country:	United States of America
SOG:	15.4 kn
Draught:	16.0 m

☒ ☐ ☐ ☐ ☐

Change resolution:

Refresh rate: 30

Replay refresh rate:

Labels:

☒ Enable Info Popup

☐ Track Selected Ship

☐ Show Vessel Legend

Color Ships By:

Step 1:
Select the
clipboard icon
shown

Step 2:
Under "labels"
"select "multiple"

Step 3:
Select the mailbox
icon shown

Step 4:
Under "labels"
select "name"

Class-A AIS Ship

AIS unit:	Class A
MMSI:	338371000
Name:	POLAR ENDEAVOUR
Callsign:	WCAJ
Position:	53°11.040 N, 138°11.360 W
IMO:	9193551
Source Type:	LRIT
Type:	Tanker
Cargo:	Undefined
Country:	United States of America
SOG:	15.4 kn
Draught:	16.0 m

☒ ☐ ☐ ☐ ☐

Label settings updated

Ship Labels

☐ MMSI	☒ Name
☐ Callsign	☐ IMO
☐ Type	☐ Cargo
☐ Country	☐ Destination

Navigation Area: Replay

If the user has access rights to perform replay an icon will be available in the top of the navigation area, allowing the user to switch to replay mode.

When replay mode is entered the icon will be different (no clock face) and allowing the user to switch to online mode.

The screenshot displays a maritime navigation software interface. At the top, a status bar shows the user is logged in as MXAKOPS. Below this, a navigation area includes a zoom level of 1:5248842, user filters set to 'Ferries and Passenger', and a position display. The main map area shows a view of Alaska and Canada, with a large blue 'R' indicating replay mode. A sidebar on the right provides details for a 'Class-A AIS Ship' (TUSTUMENA), including its MMSI, position, and other attributes. A search bar at the bottom right allows for finding ships by name or search string. The bottom status bar shows the date and time as 30. Sep 2008, 13:05 UTC-08:00.

Top Navigation Bar:

- 0 N 120 W
- Logged in as MXAKOPS
- AIS Ship

Map Area:

- Zoom Level (1:5248842)
- User filters: Ferries and Passenger
- Bookmarks
- Position
- Map showing Alaska, Canada, and Russia.
- Large blue 'R' indicating Replay mode.

Ship Details Panel (Class-A AIS Ship):

AIS unit:	Class A
MMSI:	303267000
Name:	TUSTUMENA
Callsign:	WNGW
Position:	59°26.439 N, 151°43.260 W
IMO:	6421086
Source Type:	AIS
Type:	Passenger
Cargo:	Undefined
Country:	Alaska
SOG:	0.1 kn
Draught:	4.3 m

Search Bar:

Find Ship:

Name

Search String: (Min. 1 Character/Digit)

millennium

Find

Bottom Status Bar:

30. Sep 2008 13:05 UTC-08:00 1X

Navigation Area: Replay

If the user has access rights to perform replay an icon will be available in the top of the navigation area, allowing the user to switch to replay mode.

When replay mode is entered the icon will be different (no clock face) and allowing the user to switch to online mode.

The screenshot displays a maritime navigation software interface. At the top, a status bar shows the user is logged in as MXAKOPS. Below this, a navigation area includes a zoom level of 1:5248842, user filters set to 'Ferries and Passenger', and a position display. The main map area shows a coastal region with labels for Russia, Canada, and the United States of America. A large blue 'R' is overlaid on the map. The sidebar on the right provides details for a 'Class-A AIS Ship' with the following information:

Class-A AIS Ship	
AIS unit:	Class A
MMSI:	303267000
Name:	TUSTUMENA
Callsign:	WNGW
Position:	59°26.439 N, 151°43.260 W
IMO:	6421086
Source Type:	AIS
Type:	Passenger
Cargo:	Undefined
Country:	Alaska
SOG:	0.1 kn
Draught:	4.3 m

Below the ship details is a 'Find Ship' section with a search string 'millennium' and a 'Find' button. The bottom status bar shows the date '30. Sep 2008', time '13:05 UTC-08:00', and playback controls.

Navigation Area: Replay (cont'd)

The screenshot displays the Navigation Area interface. At the top, there are controls for Zoom Level (1:5248842), User filters (Ferries and Passenger), Bookmarks, and Position. The main map shows Alaska and Canada with a large blue 'R' indicating a replay area. A sidebar on the right shows details for a Class-A AIS Ship, TUSTUMENA, with various attributes like MMSI, Name, Position, and Draught. At the bottom, a replay control bar shows the date 30. Sep 2008, time 13:05, and UTC-08:00, along with playback buttons and a speed indicator of 1X.

Date - Presents the date from which replay will be performed. The calendar is used to select the date. When clicked a small calendar will pop up in a new window.

Time Field - The time field is used to set the time from which to start replay. The UTC (Universal Time Coordination or GMT – Greenwich Mean Time) value will present the time zone for the client PC. During replay, the input field is updated with the current time. The current time and date is also shown on the map.

8/2/2008
12:00:00 AM UTC

- ▶ This button is used to start replay. When replay is started the date and time can not be changed.
- This button is used to stop replay.
- ⏮ ⏭ These two buttons are used to change the replay speed. The current value is shown between the buttons. The speed can both be positive (forward) and negative (backwards). By default the refresh rate of the map will be 5 seconds. The refresh rate can be changed in Preferences. If resolution is changed in replay mode the replay will stop. It stops at the nearest replay minute. The replay can be started again by pressing the ▶ button.

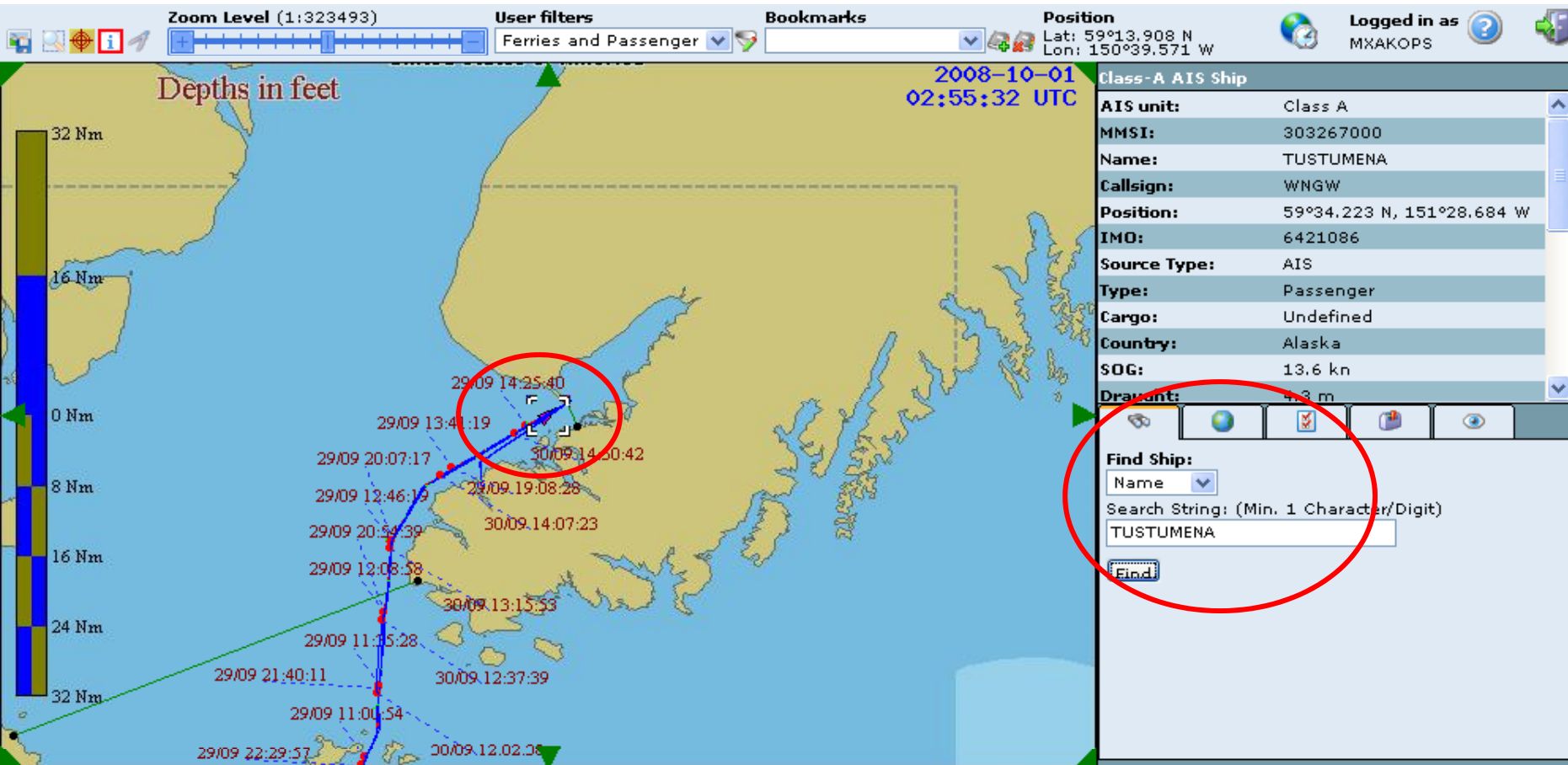
Options Window

The screenshot displays a maritime navigation application. At the top, there are toolbars for map navigation (Zoom Level: 1:2587948, User filters: No filter, Bookmarks) and a Position display (Lat: 56°58.699 N, Lon: 141°31.346 W). The main map area shows the Bering Sea and the coast of Alaska, with labels for 'United States of America', 'Canada', 'Yukon', 'Chukchi Sea', and 'Pacific Ocean Northern Port'. A red box highlights the 'Options Window' on the right side of the interface. This window contains a 'Find Ship' section with a 'Name' dropdown, a 'Search String' input field, and a 'Find' button. Above this section is a table of ship details for a 'Class-A AIS Ship'.

Class-A AIS Ship	
Draught:	4.3 m
COG:	359
Heading:	0°
ROT:	0
Width:	18 m
Length:	90 m
Destination:	HOMER
Nav. Status:	Under way using engine
ETA:	2 Oct 19:15
Pos. accuracy:	High
Last AIS report:	00:00:03
Last AIS Position:	59°35.915 N, 151°24.270 W

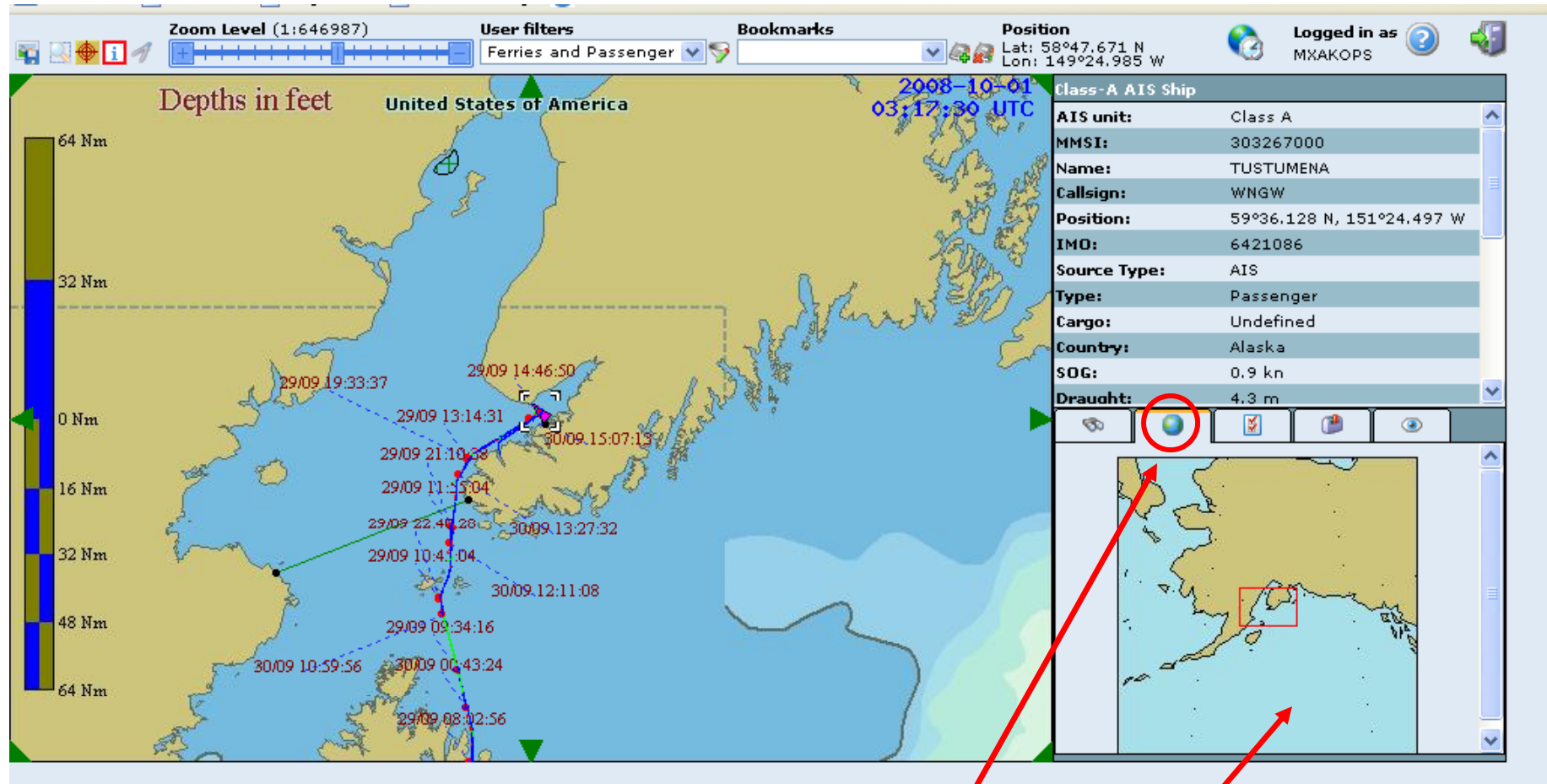
Options Window - The Options Window provides the user with a range of options for configuring the display, provides an overview map of the navigation area to allow for more rapid navigation and provides a listing of watchdog events.

Options: Find "Ship"



The "Find Ship" function accessed by selecting the  icon shown above, allows the user to search for a specific vessel's location on the chart. One can search for a vessel by entering the vessel's Call Sign, Ship Name, IMO number or MMSI (Marine Mobile Station Identification) number. The display will highlight the location of the vessel in a white broken box as shown on the chart as shown in the circled area above left.

Options: Chart Overview



The overview map function accessed by selecting the  icon above, provides an overview of where the chart view is positioned in reference to larger scale charts represented by a red square on the overview map. The user can move the displayed area to another location by clicking at a desired location outside the box

Options: Preferences and Vessel Legend

Triangle icons on the chart are AIS reports and circle icons are satellite position reports.

The screenshot shows a maritime tracking application interface. At the top, there's a toolbar with icons for zoom, pan, and other navigation functions. Below the toolbar, a map displays the coastal region of Alaska and the Yukon river. The map is overlaid with various vessel icons. A red box with an arrow points to a triangle icon on the map, labeled "Triangle icons are AIS position reports". Another red box with an arrow points to a circle icon on the map, labeled "Circular icons are satellite position reports". A third red box with an arrow points to a color-coded triangle icon, labeled "Color legend indicating type of vessels". On the right side, there's a "Legend" panel with a list of vessel types and their corresponding colors. A red box with an arrow points to this panel, labeled "Selection of Vessel Legend". Below the legend, there's a "Class-A AIS ship" panel showing details for a specific vessel: AIS unit: Class A, MMSI: 303267000, Name: TUSTUMENA, Callsign: WNGW, Position: 58°58' 17" N, 151°33.659 W, IMO: 8220174, Sou: Alaska, Type: Passenger, Cargo: Undefined, Country: Alaska, SOG: 13.9 kn, Draught: 4.3 m. Below this, there's a "Change resolution:" section with a dropdown menu. Further down, there's a "Refresh rate:" section with a value of 10 and an "Update" button. Below that, there's a "Replay refresh rate:" section with a value of 5 and an "Update" button. At the bottom, there's a "Labels:" section with a dropdown menu set to "Multiple". Below that, there's a "Show Vessel Legend" checkbox which is checked. Below that, there's a "Color Ships By:" section with a dropdown menu set to "Ship Type" and a "Set" button. A red box with an arrow points to the "Show Vessel Legend" checkbox, labeled "The vessel color legend may be shown or hidden by selecting this box." Another red box with an arrow points to the "Replay refresh rate:" section, labeled "The vessel's position replay rate in minutes may be changed by selecting this feature".

Triangle icons are AIS position reports

Color legend indicating type of vessels

Circular icons are satellite position reports

Selection of Vessel Legend

Class-A AIS ship

AIS unit: Class A

MMSI: 303267000

Name: TUSTUMENA

Callsign: WNGW

Position: 58°58' 17" N, 151°33.659 W

IMO: 8220174

Sou: Alaska

Type: Passenger

Cargo: Undefined

Country: Alaska

SOG: 13.9 kn

Draught: 4.3 m

Change resolution:

Refresh rate: 10 Update

Replay refresh rate: 5 Update

Labels: Multiple

☒ Enable Info Popup

☐ Track Selected Ship

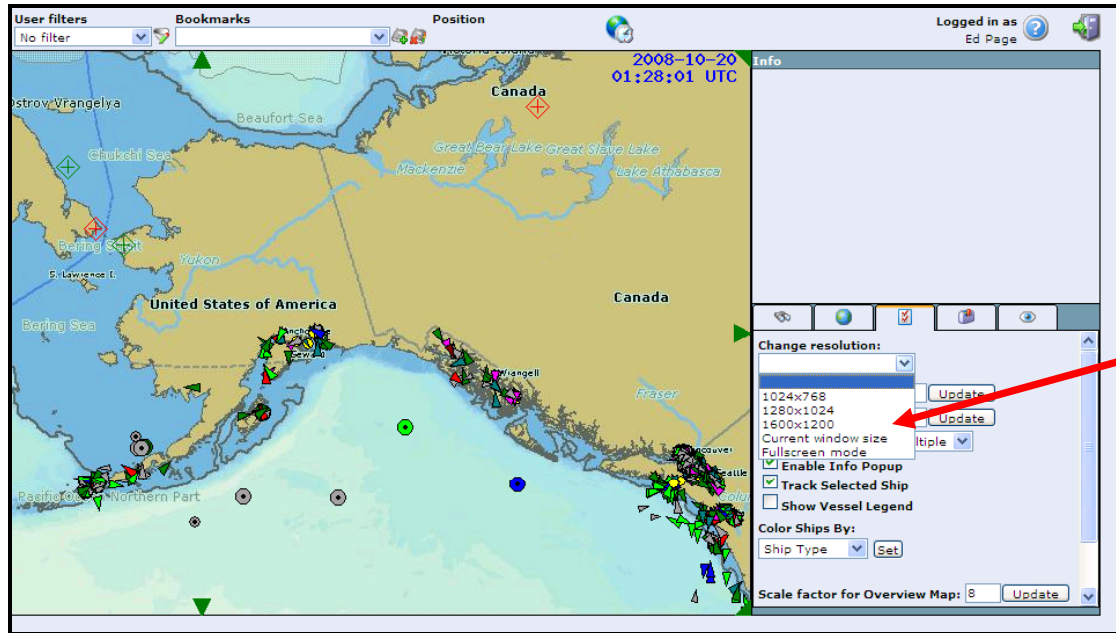
☒ Show Vessel Legend

Color Ships By: Ship Type Set

The vessel color legend may be shown or hidden by selecting this box.

The vessel's position replay rate in minutes may be changed by selecting this feature

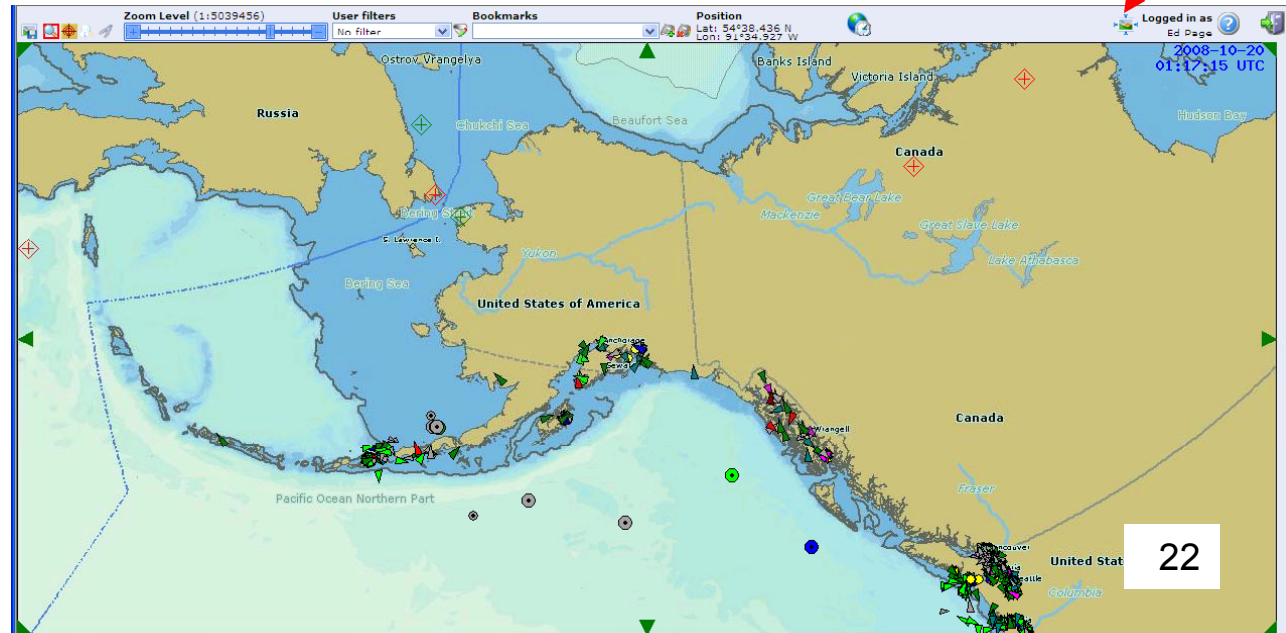
Options: Screen Resolution – Full Screen



A “full screen” display is available, without the control boxes at right, by selecting the “change resolution” option and “Fullscreen mode” option.



The full screen display at right may be changed to the split screen by selecting the icon  at the top right of the screen.



Options: Ship List

GH AIS Webdisplay menu - Mozilla Firefox

http://www.pactracs.com/webgad/shiplist.php?onlyshowshipsinmap=true

Select display properties

☐ AIS unit ☒ MMSI ☒ Name ☒ Callsign

☐ Position ☒ IMO ☐ Source Type ☒ Type

☒ Cargo ☒ Country ☐ SOG ☒ Draught

☐ COG ☐ Heading ☐ ROT ☐ Width

☐ Length ☒ Destination ☐ Nav. Status ☒ ETA

☐ Pos. accuracy ☐ Last AIS report ☐ Last AIS Position

Options

☒ Only display ships currently in map

Update Export to PDF Export to CSV

Ship List

91 ships listed

MMSI	Name	Callsign	IMO	Type	Cargo	Country	Draught	Destination	ETA
000005440	WALTER N	WC2467	Unknown	N/A	Undefined	Nauru	Unknown	HOME	Unknown
003138836	BERING HUNTER	WDD7150	967014	Fishing	Undefined	Unknown	3.0 m	KODIAK	21 Sep 12:00
043676060	SILVER SPRAY	WCD8162	964016	N/A	Undefined	Kazakhstan	3.0 m	HOMER	28 Aug 02:00
239894000	DESERT EAGLE	SVUP	9224790	Cargo	Undefined	Greece	8.0 m	TACOMA	8 Oct 12:00
300000000	SALLY N		Unknown	WIG	Undefined	Unknown	Unknown	NAKNEK,ALASKA	6 Jun 06:00
303177000	WESTERN NAVIGATOR	WAX7602	1	Towing long/wide	Undefined	Alaska	4.0 m	KETCHIKAN AK	29 Sep 15:00
303244000	COASTAL PROGRESS	WDC6363	Unknown	Cargo	Undefined	Alaska	5.5 m	SAND PT. AK.	2 Oct 15:00
303267000	TUSTUMENA	WNGW	6421086	Passenger	Undefined	Alaska	4.3 m	PORT LIONS	3 Oct 08:30
303328000	F/V MARCY J	WCF4791	Unknown	Other	Undefined	Alaska	Unknown		Unknown
303496000	SAMSON MARINER	WCN3586	Unknown	N/A	Undefined	Alaska	Unknown		Unknown
303673000	MIKE OLEARY	WDC3665	741736700	Towing long/wide	Undefined	Alaska	Unknown	SEATTLE WA	12 Oct 16:00
303674000	ALASKA CHALLENGER	WTG6665	793802400	Fishing	Undefined	Alaska	3.0 m	FALSE PASS	Unknown
311118000	ARCTIC SPIRIT	C6WL5	9001784	Tanker	Undefined	Bahamas	9.4 m	SODEGAURA (JPN)	28 Sep 14:00
338033319	KODIAK KING	WCE8949	1	Tug	Undefined	United States of America	3.0 m	KODIAK ISLAND	12 May 19:00
338033406	CHAHUNTA	WDA9354	58439	Tug	Undefined	United States of America	4.0 m	JUNEAU	17 Jun 23:00
338035576	INDEPENDENCE	WDC2391	1	Other	Undefined	United States of America	5.0 m	ESTHER IS	2 Aug 22:00
338036000	CHENEGA	WDC3997	9265794	HSC	Undefined	United States of America	2.0 m	CORDOVA	30 Sep 16:00
338038996	LE CHEVAL ROUGE	WAF3872	7501091	Towing	Undefined	United States of America	Unknown	UINFAILL	2 Oct 01:30

Shiplist | WMS Client Configuration | WMS Server Configuration | Map Configuration |

By selecting the Shiplist option (1), the user is presented with a new window (2) presenting all the AIS ship targets currently in the system. If the user has an active filter, this filter is applied to the Shiplist. The user can select the vessel properties to be displayed by clicking the appropriate property buttons then implement the changes by selecting the "update" (3) button.

The shiplist can be exported as a either a PDF or CSV file by clicking the Export to PDF / Export to CSV buttons (4).

By checking the "Only display ships currently in map" option and clicking the update button, the ship list will be filtered so that only ships present on the current chart display will be shown in the Shiplist. (5)

Options: Vessel Tracks and Properties

The screenshot displays a maritime tracking application interface. At the top, there is a navigation bar with a zoom level of 1:553547, user filters set to 'Ferries and Passenger', and a position of 58°34.855 N, 132°57.010 W. The main map area shows a coastal region with depth contours (0 to 64 Nm) and vessel tracks. A settings dialog is open in the center, titled 'General Settings', with a red circle highlighting the 'Labels' section. The 'Labels' section includes checkboxes for 'Enable Info Popup', 'Track Selected Ship', and 'Show Vessel Legend', all of which are checked. The 'Color Ships By' dropdown is set to 'Ship Type'. The 'Scale factor for Overview Map' is set to 8. To the right of the map, a panel titled 'Class-A AIS Ship' displays information for the vessel 'LEO FOREST', including its MMSI (352910000), callsign (3FPH8), position, IMO (9166211), source type (AIS), type (Cargo), country (Panama), SOG (11.6 kn), and draught (9.9 m). Below this, a 'Ship Labels' section allows users to select which properties to display, with 'Name' checked. At the bottom right, a 'History Settings' section shows 'Enabled' checked, a timestamp interval of 5 minutes, and a lookback time of 72 hours.

Zoom Level (1:553547) User filters: Ferries and Passenger Bookmarks Position: 58°34.855 N, 132°57.010 W Logged in as MXAKOPS

2008-10-01 23:42:00 UTC

Class-A AIS Ship

AIS unit: Class A
MMSI: 352910000
Name: LEO FOREST
Callsign: 3FPH8
Position: 57°18.687 N, 137°02.183 W
IMO: 9166211
Source Type: AIS
Type: Cargo
Cargo: Undefined
Country: Panama
SOG: 11.6 kn
Draught: 9.9 m

Ship Labels

☐ MMSI ☒ Name
☐ Callsign ☐ IMO
☐ Type ☐ Cargo
☐ Country ☐ Destination
Update

History Settings

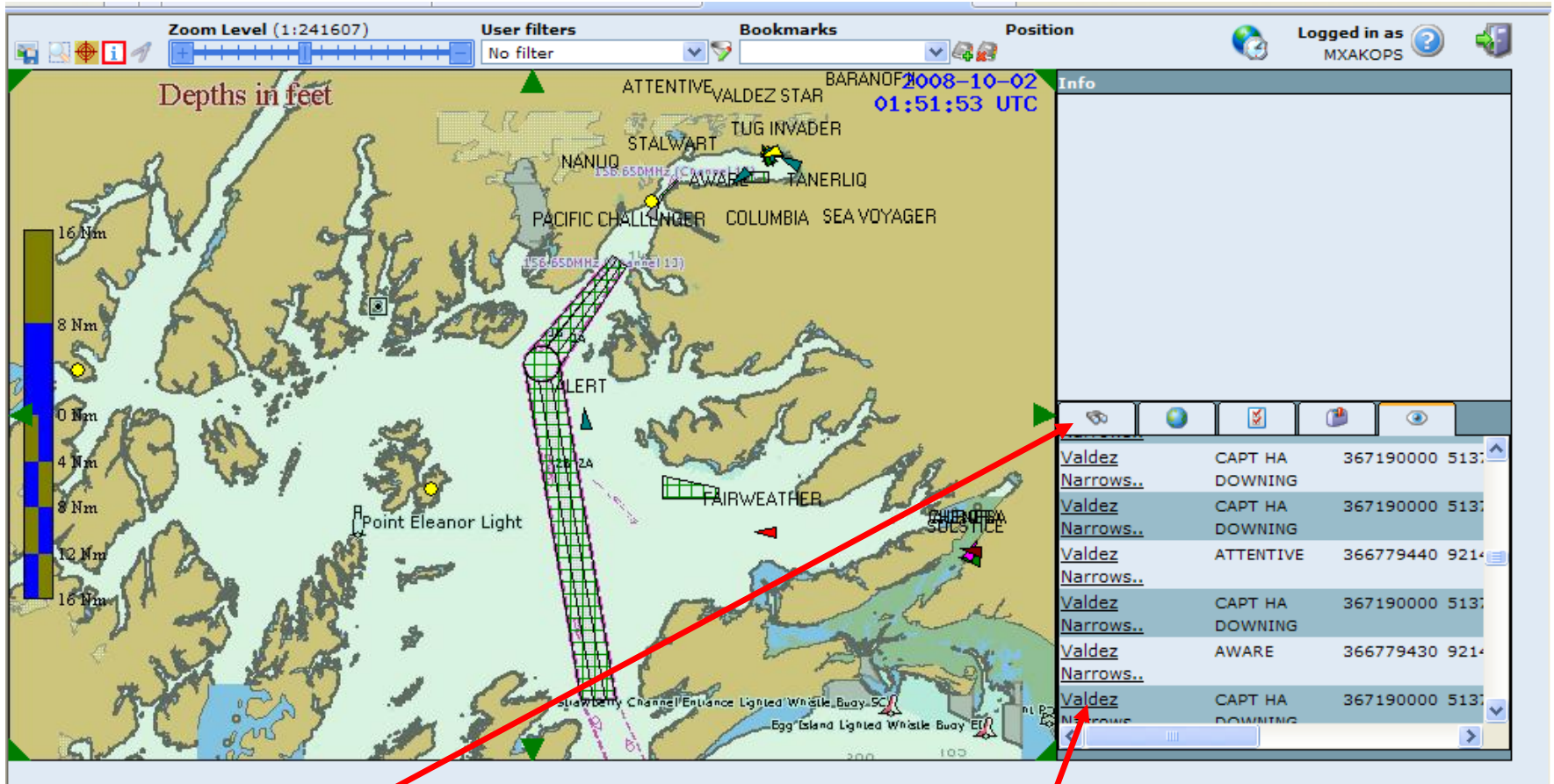
1 ☒ Enabled
2 5 Timestamp (minutes)
3 72 Lookback time (hours)
Update

Change resolution:
Refresh rate: 30 Update
Replay refresh rate: 5 Update
Labels: Multiple
☒ Enable Info Popup
☒ Track Selected Ship
☐ Show Vessel Legend
Color Ships By: Ship Type Set
Scale factor for Overview Map: 8 Update

This part of the "General Settings" dialog allows the user to enable and disable (1) the tracks of vessels, the setting of timestamp intervals (2) and configuring the number of hours historical tracks will be displayed for a selected ship (lookback) (3) After selecting the features the update button should be activated.

This "General Settings" dialog allows the user to choose properties that will be displayed for vessels. To activate, the user needs to select the preference tab  then set the "labels" option, to "multiple". After selecting, the update button should be activated.

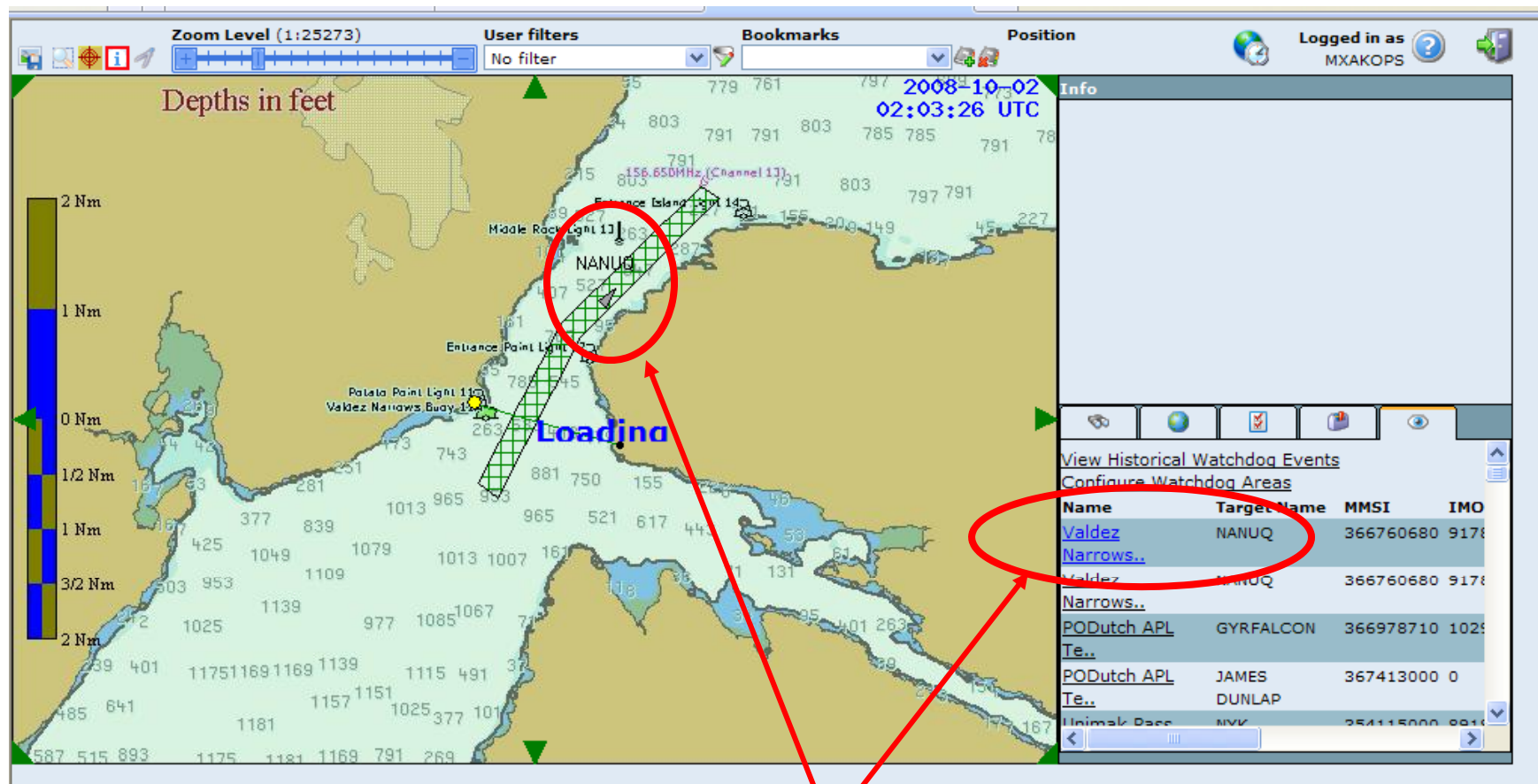
Options: Watchdog Alerts



The binocular icon is selected to show Watch Dogs that are in effect. Administrators can configure watchdogs (Alert Areas) that are available on a per user basis. Contact the Marine Exchange for establishing or modifying watch dogs. (907) 463-2607

If the Watchdog module has been enabled for your user account, a watchdog window will appear in the bottom right corner as illustrated above.

Options: Watchdog Alerts (cont'd)



The watchdog window in the bottom right corner shows the watchdog event that has occurred within the past 12 hours. Whenever a new event occurs, a popup window appears in the bottom right corner stating that an event has occurred.

By clicking on the name of the watchdog event, the map will zoom to the location where the watchdog event occurred.

The cross hatched area is a watch dog delineated zone that sends alerts to designated users when specified vessels enter or exit this area.

Options: Watchdog Alerts (cont'd)

The screenshot displays the GH AIS Webdisplay menu in a Windows Internet Explorer browser. The main window shows a table of historical watchdog events for the date 2 Oct 2008. The table has columns for Name, Target Name, MMSI, IMO, and Callsign. The events listed are:

Name	Target Name	MMSI	IMO	Callsign
Unimak Pass West Bound	STAR HANSA	259725000	9103128	LAXP4
Valdez Narrows Entering North bound	NANUQ	366760680	9178379	WCY8498
Unimak Pass	FAIRCHEM	351516000	9287297	HPOW

On the right side of the interface, there is a sidebar with a table of live watchdog events. The table has columns for Name, Target Name, MMSI, and IMO. The events listed are:

Name	Target Name	MMSI	IMO
Unimak Pass	STAR HANSA	259725000	9103128
Valdez Narrows	NANUQ	366760680	9178379
Valdez Narrows	NANUQ	366760680	9178379
PODutch APL	GYRFALCON	366978710	1029111
Te..			
PODutch APL	JAMES	367412000	0

Red arrows indicate the workflow: one points from the 'View Historical Watchdog Events' link in the sidebar to the historical events window, and another points from the date selection controls and 'Show' button in the historical events window to the date selection controls.

1. By clicking the "View Historical Watchdog Events" link in the live watchdog events window, the historical watchdog event window is presented. This allows the user to show all the watchdog events that occurred on a specific day.
2. A date is selected by using the drop down menus and clicking the "Show button". A list of all events that occurred the specific day is then presented. The user can click the name of the watchdog to zoom the map to the location where the watchdog event occurred.

On Line Help and Log Out

Online Help: This utility describes how to use PACTRACS. By describing the various features. Select the ? icon to access help.

Log Out: Select button on the top right

The screenshot displays the WebGAD application interface. At the top, there is a navigation bar with the following elements:

- Zoom Level:** (1:5407137)
- User filters:** Ferries and Passenger
- Bookmarks:** [Dropdown menu]
- Position:** Lat: 51°28.367 N, Lon: 143°24.037 W
- Logged in as:** MXAKOPS
- Help icon:** A question mark icon in a circle, which is highlighted by a red arrow from the "Log Out" text box.
- Logout icon:** A green icon with a white 'X', which is highlighted by a red arrow from the "Log Out" text box.

The main map area shows a map of Canada with a green triangle indicating the current position. The date and time are displayed as 2008-09-30 21:11:12 UTC.

On the left side, there is a sidebar with a tree structure of navigation links:

- Getting Started
- Navigation Area
- Information Window
- Options Window
- Data Mode
- Filtering
- Common Tasks
- Misc

The main content area displays the "Introduction" page, which includes the following text:

Introduction

The GateHouse AIS Webdisplay (WebGAD) is used for displaying AIS related data and performing analysis on this data. Just as the GAD application, WebGAD is **not** meant to be used for navigation. Though this term is used by WebGAD, it merely indicates the ability to roam the different waters of the map.

This help utility describes how to use WebGAD. In particular, it characterizes the various options of navigation modes - how you roam and select vessels on the map. As an example, you could select the Info mode, which enables you to select specific vessels (targets) on the map and view information on these. You could also select the zoombox mode, which enables you to zoom in on a desired map location by drawing a rectangle on the location. After drawing the rectangle, the map will zoom in and approximately contain the area defined by the drawn rectangle.

You can manoeuvre this help utility by using the tree structure to the left, and by clicking the "Home", "Back", and "Forward" buttons on the toolbar. Be aware, that you can hide the tree structure by clicking the X symbol, and make it appear again by selecting "Contents" from the toolbar. Also, use the "Search" and "Index" features to lookup a specific topic, or simply view all.

Getting Started

If you are a first time user of WebGAD, we recommend you read the "Using WebGAD" section before you start using the application. The "Using WebGAD" section outlines and describes the main user interface and features of WebGAD, hence providing you with instructions on how to operate it. Furthermore, you are also introduced to the procedure of displaying information on specific targets and/or performing operations related to the displaying of these. Follow the link below to learn about the use of WebGAD.

- [Using WebGAD](#)

Note that there are no setup steps that need to be performed before using WebGAD, as it is a web-based application.

Common Tasks

This section outlines a suite of common WebGAD tasks. These common tasks are listed in a prioritized order, as illustrated in the bulleted list below. The various common tasks are also selectable from the tree structure to the left.

Moreover, the common tasks have been grouped by their nature, as this provides you with a straightforward way of determining which group of operations to look under, when searching for a specific operation.

Map tasks

- [Select Target](#)

On the right side, there is a detailed view of a Class-A AIS Ship:

Class-A AIS Ship	
AIS unit:	Class A
MMSI:	303267000
Name:	TUSTUMENA
Callsign:	WNGW
Position:	59°27.447 N, 151°43.524 W
IMO:	6421086
Source Type:	AIS
Type:	Passenger
Cargo:	Undefined
Country:	Alaska
SOG:	11.4 kn
Draught:	4.3 m

Below the ship information, there is a "Find Ship:" section with a dropdown menu for "Name" and a search string input field containing "millennium". A "Find" button is located below the input field.